

IN THE CLAIMS:

1. (Currently amended) A method operative in an input/output device associated with a computer system, comprising:
performing, using a device having an embedded processor, a plurality of direct memory access transfers with respect to memory of the computer system, wherein parameters of the direct memory access transfers are varied pseudo-randomly;
wherein the direct memory transfers are performed concurrently with memory accesses by a processor in the computer system other than said embedded processor.
2. (Original) The method of claim 1, wherein the parameters include start address alignment.
3. (Original) The method of claim 1, wherein the parameters include transfer size.
4. (Original) The method of claim 1, wherein the parameters include at least one of transfer width and byte lane enables.
5. (Original) The method of claim 1, wherein the parameters include at least one of request assertion time, request deassertion time, number of wait states, number of idle states, disconnect count, retry limit, and whether to override a latency timer.
6. (Original) The method of claim 1, further including performing additional bus commands.
7. (Original) The method of claim 6, wherein the additional bus commands include all possible bus commands.
8. (Cancelled)

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9. (Currently amended) ~~The method of claim 8,~~ A method operative in an input/output device associated with a computer system, comprising:
performing a plurality of direct memory access transfers with respect to memory of the computer system, wherein parameters of the direct memory access transfers are varied pseudo-randomly;
wherein the processor and the input/output device access memory locations within a same block of memory.
10. (Currently amended) The method of claim [[8]] 9, wherein the processor and the input/output device access a same memory location.
11. (Original) The method of claim 1, wherein the memory includes cache memory.
12. (Currently amended) A computer program product in a computer readable medium and operative in an input/output device associated with a computer system, comprising functional descriptive material that when processed by an input/output device, enables the input/output device to perform acts of:
performing, using a device having an embedded processor, a plurality of direct memory access transfers with respect to memory of the computer system, wherein parameters of the direct memory access transfers are varied pseudo-randomly;
wherein the direct memory transfers are performed concurrently with memory accesses by a processor in the computer system other than said embedded processor.
13. (Original) The computer program product of claim 12, wherein the parameters include start address alignment.
14. (Original) The computer program product of claim 12, wherein the parameters include transfer size.
15. (Original) The computer program product of claim 12, wherein the parameters include at least one of transfer width and byte lane enables.
16. (Original) The computer program product of claim 12, wherein the parameters include at least one of request assertion time, request deassertion time, number of wait

states, number of idle states, disconnect count, retry limit, and whether to override a latency timer.

17. (Original) The computer program product of claim 12, wherein the functional descriptive material enables the computer to perform additional acts including performing additional bus commands.

18. (Original) The computer program product of claim 17, wherein the additional bus commands include all possible bus commands.

19. (Cancelled)

20. (Currently amended) ~~The computer program product of claim 19;~~ A computer program product in a computer readable medium and operative in an input/output device associated with a computer system, comprising functional descriptive material that when processed by an input/output device, enables the input/output device to perform acts of:
performing a plurality of direct memory access transfers with respect to memory of the computer system, wherein parameters of the direct memory access transfers are varied pseudo-randomly;

wherein the processor and the input/output device access memory locations within a same block of memory.

21. (Currently amended) The computer program product of claim ~~[[19]]~~ 20, wherein the processor and the input/output device access a same memory location.

22. (Original) The computer program product of claim 12, wherein the memory includes cache memory.

23. (Cancelled)

24. (Currently amended) An input/output device comprising means for:
performing a plurality of direct memory access transfers with respect to memory
of a computer system, wherein parameters of the direct memory access transfers are
varied pseudo-randomly;
wherein the direct memory transfers are performed concurrently with memory
accesses by a processor in the computer system.
25. (Original) The input/output device of claim 24, wherein the parameters include
start address alignment.
26. (Original) The input/output device of claim 24, wherein the parameters include
transfer size.
27. (Original) The input/output device of claim 24, wherein the parameters include at
least one of transfer width and byte lane enables.
28. (Original) The input/output device of claim 24, wherein the parameters include at
least one of request assertion time, request deassertion time, number of wait states,
number of idle states, disconnect count, retry limit, and whether to override a latency
timer.
29. (Original) The input/output device of claim 24, further comprising means for
performing additional bus commands.
30. (Original) The input/output device of claim 29, wherein the additional bus
commands include all possible bus commands.
31. (Cancelled)
32. (Currently amended) The input/output device of claim ~~[[31]]~~ 24, wherein the
processor and the input/output device access memory locations within a same block of
memory.

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33. (Currently amended) The input/output device of claim ~~[[31]]~~ 24, wherein the processor and the input/output device access a same memory location.
34. (Original) The input/output device of claim 24, wherein the memory includes cache memory.
35. (Currently Amended) A computer system comprising:
memory;
a first processor associated with said memory;
at least one peripheral device containing an embedded processor and configured to be able to access the said memory; ~~at least one processor associated with the memory;~~
and
functional descriptive material within the memory, wherein ~~the at least one~~ said first processor processes the functional descriptive material to perform acts of:
directing the at least one peripheral device to use said embedded processor to perform direct memory access transfers with respect to the memory and with pseudo-random variations in direct memory access transfer parameters; and
accessing a portion of the memory concurrently with the at least one peripheral device.
36. (Cancelled)

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